#### Switching Diodes

# **Panasonic**

# MAS3132D

### Silicon epitaxial planar type

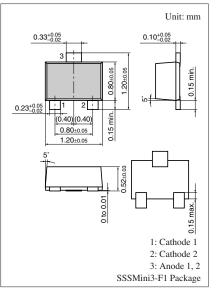
#### For switching circuits

#### Features

- Two elements are contained in one package, allowing highdensity mounting
- Short reverse recovery time t<sub>rr</sub>
- Small terminal capacitance C<sub>t</sub>

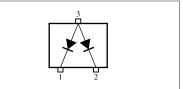
#### Absolute Maximum Ratings $T_a = 25^{\circ}C$

Parameter		Rating	Unit
Reverse voltage		80	V
Maximum peak reverse voltage		80	V
Single	I <sub>F</sub>	100	mA
Double		150	
Single	I <sub>FM</sub>	225	mA
Double		340	
Single	I <sub>FSM</sub>	500	mA
Double		750	
Junction temperature		150	°C
Storage temperature		-55 to +150	°C
	Single Double Single Double Single Double	Single IFM Double IFM Double IFM Double IFSM Double	$\begin{tabular}{ c c c c } \hline V_R & & & & & & & & & & & & & & & & & & &$



Marking Symbol: MO

#### Internal Connection



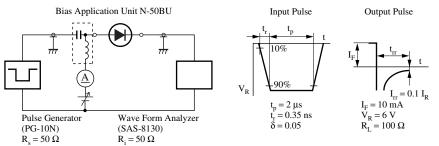
#### Note) \*: t = 1 s

#### Electrical Characteristics $T_a = 25^{\circ}C \pm 3^{\circ}C$

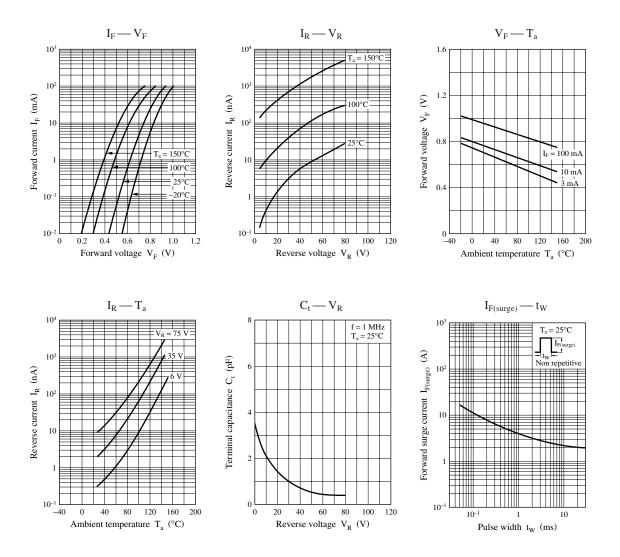
Parameter	Symbol	Conditions	Min	Тур	Max	Unit
Forward voltage	V <sub>F</sub>	$I_F = 100 \text{ mA}$			1.2	V
Reverse voltage	V <sub>R</sub>	$I_R = 100 \ \mu A$	80			V
Reverse current	I <sub>R</sub>	V <sub>R</sub> = 75 V			100	nA
Terminal capacitance	Ct	$V_{R} = 0 V, f = 1 MHz$			15	pF
Reverse recovery time *	t <sub>rr</sub>	$I_F = 10 \text{ mA}, V_R = 6 \text{ V}$			10	ns
		$I_{rr}$ = 0.1 $I_R$ , $R_L$ = 100 $\Omega$				

Note) 1. Measuring methods are based on JAPANESE INDUSTRIAL STANDARD JIS C 7031 measuring method for diodes.

- 2. Absolute frequency of input and output is 100 MHz.
- 3. \*: t<sub>rr</sub> measurement circuit



### **Panasonic**



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